

### Abstract

The invention provides a lube base oil other than silicone oil having a kinematic viscosity of 12 mm<sup>2</sup>/s or below at 40°C, exhibiting, in Noack test (250°C, 1 hr), an evaporation loss of 30 mass% or below and/or a flash point of 200°C or higher, and exhibiting an aniline point of 60°C or higher.

There is also provided a lubricating oil composition comprising the lube base oil mixed with at least one additive selected from the group consisting of an antioxidant, a viscosity index improver, a detergent dispersant, a friction reducing agent, a metal inactivator, a pour point depressant, an abrasion resisting agent, a defoamer, and an extreme-pressure additive.

The lube base oil and the lubricating oil composition realize reduction of evaporation loss despite being of low viscosity and excellent compatibility with organic materials.